

## RABIN &amp; BERDO, P.C.

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May 27, 2005

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE <b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>JUN 112NP</b>
		U.S. APPLICATION NO. <b>10/536755</b> To Be Assigned
INTERNATIONAL APPLICATION NO. <b>PCT/KR03/001246</b>	INTERNATIONAL FILING DATE <b>25 June 2003 (25.06.03)</b>	PRIORITY DATE CLAIMED <b>23 June 2003 (23.06.03)</b>
TITLE OF INVENTION <b>A MODULATION METHOD USING HARD DECISION FOR QUADRATURE AMPLITUDE MODUALTION AND AN APPARATUS THEREOF</b>		
APPLICANT(S) FOR DO/EO/US <b>SEO Hong-Seok, and KIM Tae-Hoon</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).</p> <p>4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19<sup>th</sup> month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p>		
<p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)) [ pages].</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</p> <p>b. <input type="checkbox"/> have been transmitted by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11. To 16. below concern document(s) or information included:		
<p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A FIRST preliminary amendment.</p> <p>A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14. <input type="checkbox"/> A substitute specification.</p> <p>15. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>16. <input checked="" type="checkbox"/> Other items or information: -International Search Report</p>		

**FEE ENCLOSED:\$ 500**  
Please charge any further  
fee to our Deposit Account  
No. 18-0002

U.S. APPLICATION NO. To be assigned <b>10/536755</b>		INTERNATIONAL APPLICATION NO. PCT/KR03/001246		ATTORNEY'S DOCKET NUMBER JUN 112NP	
17. The following fees are submitted:					
<input checked="" type="checkbox"/> Basic National Stage Fee <input checked="" type="checkbox"/> National Stage Search Fee <input checked="" type="checkbox"/> National Stage Examination Fee		\$ 300.00 \$ 500.00 \$ 200.00		CALCULATIONS PTO USE ONLY	
<b>ENTER APPROPRIATE BASIC FEE AMOUNT = \$ 1000.00</b>					
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)) <b>\$ 0.00</b>					
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	12- 20 =	0	x \$50.00	\$ 0.00	
Independent claims	2- 3 =	0	x \$200.00	\$ 0.00	
Total sheets of specification and drawings (more than 100)	( - 100)/50 =	0	x \$250.00	\$ 0.00	
MULTIPLE DEPENDENT CLAIM(S) (IF APPLICABLE)				+ \$360.00	\$ 000.00
<b>TOTAL OF ABOVE CALCULATIONS = \$ 1,000.00</b>					
Reduction of 1/2 for filing by small entity, if applicable. Small Entity status is asserted.				\$ 500.00	
<b>SUBTOTAL = \$ 500.00</b>					
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)) +				\$ 000.00	
<b>TOTAL NATIONAL FEE = \$ 500.00</b>					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ 0.00	
<b>TOTAL FEES ENCLOSED = \$ 500.00</b>					
				Amount to be Refunded:	\$
				Charged:	

A Form PTO-2038 in the amount of \$ 500.00 to cover the above fee is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0002. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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 SIGNATURE  
 NAME:  
 Steven M. Rabin. (Reg. No. 29.102)

Date: May 27, 2005